



Within

by Arya Akhavan (April 2014)

Angles for R.I. = 1.540

81 + 12 girdles = 93 facets

4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.263$ $U/W = 0.062$

$P/W = 0.485$ $C/W = 0.170$

$Vol./W^3 = 0.269$

PAVILION

P1	42.71°	02-22-26-46-50-70-74-94	Cut to centerpoint.
P2	42.00°	03-21-27-45-51-69-75-93	Meet at culet.
G1	90.00°	96-24-48-72	Set stone size.
G2	90.00°	08-16-32-40-56-64-80-88	Meet P1, P2, G1
P3	59.12°	96-24-48-72	Level girdle.
P4	59.12°	08-16-32-40-56-64-80-88	Level girdle.
P5	42.00°	01-23-25-47-49-71-73-95	Meet P1, P3

CROWN

C1	44.96°	96-48	Set girdle width.
C2	29.43°	08-40-56-88	Level girdle.
C3	30.15°	16-32-64-80	Level girdle.
C4	36.97°	24-72	Level girdle.
C5	27.71°	06-42-54-90	Meet G1, G2, C1, C2
C6	32.19°	21-27-69-75	Meet G1, G2, C3, C4
C7	27.88°	16-32-64-80	Meet C2, C3, C5
C8	17.79°	06-42-54-90	Meet C2, C3, C5, C7
C9	25.38°	20-28-68-76	Meet C3, C6, C7
C10	24.62°	24-72	Meet C4, C6, C9
C11	16.51°	96-48	Meet C1, C5, C8
C12	9.85°	12-36-60-84	Meet C7, C8, C9
C13	7.00°	24-72	Meet C9, C10, C12
C14	7.00°	96-48	Meet C8, C11, C12
T	0.00°	Table	Meet C12, C13, C14

I was really happy with my "Rice Fields" design, written to look like the Japanese character for "Rice Field", so I decided to do another one, this time for the character for "Within". And it still looks pretty good! Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I prefer Colorado topaz.

Suggested size = 8-12 mm

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